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Claim 5. (AMENDED) The cooling roll as claimed in claim 2, wherein the outer surface layer of the cooling roll is formed of a material having a heat conductivity equal to or less than  $80 \text{ W m}^{-1} \text{ K}^{-1}$  at or around room temperature.

Claim 6. (AMENDED) The cooling roll as claimed in claim 2, wherein the outer surface layer of the cooling roll is formed of a material having a coefficient of thermal expansion in a range of  $3.5 - 18 (\times 10^{-6} \text{ K}^{-1})$  at or around room temperature.

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Claim 7. (AMENDED) The cooling roll as claimed in claim 2, wherein an average thickness of the outer surface layer of the cooling roll is  $0.5$  to  $50 \mu\text{m}$ .

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Claim 8. (AMENDED) The cooling roll as claimed in claim 2, wherein the outer surface layer of the cooling roll is manufactured without experiencing a machining process.

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Claim 9. (AMENDED) The cooling roll as claimed in claim 1, wherein a surface roughness  $R_a$  of a portion of the circumferential surface where the gas expelling means is not provided is  $0.05 - 5 \mu\text{m}$ .

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Claim 11. (AMENDED) The cooling roll as claimed in claim 10, wherein an average width of the groove is  $0.5 - 90 \mu\text{m}$ .

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Claim 12. (AMENDED) The cooling roll as claimed in claim 10, wherein an average depth of the groove is  $0.5 - 20 \mu\text{m}$ .

Claim 13. (AMENDED) The cooling roll as claimed in claim 10, wherein an angle defined by a longitudinal direction of the groove and a rotational direction of the cooling roll is equal to or less than 30 degrees.

Claim 14. (AMENDED) The cooling roll as claimed in claim 10, wherein the groove is formed spirally with respect to a rotation axis of the cooling roll.

Claim 16. (AMENDED) The cooling roll as claimed in claim 10, wherein the groove has openings located at peripheral edges of the circumferential surface.

Claim 17. (AMENDED) The cooling roll as claimed in claim 10, wherein a ratio of a projected area of the groove with respect to a projected area of the circumferential surface is 10 - 99.5%.

Claim 18. (AMENDED) A ribbon-shaped magnetic material which is manufactured by using the cooling roll described in claim 1.

Claim 19. (AMENDED) The ribbon-shaped magnetic material as claimed in claim 18, wherein an average thickness thereof is 8 - 50 $\mu$ m.

Claim 20. (AMENDED) A magnetic powder which is obtained by milling the ribbon-shaped magnetic material described in claim 18.

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Claim 21. (AMENDED) The magnetic powder as claimed in claim 20, wherein the magnetic powder is subjected to at least one heat treatment during or after a manufacturing process thereof.

Claim 22. (AMENDED) The magnetic powder as claimed in claim 20, wherein a mean particle size of the powder is 1 - 300 $\mu$ m.

Claim 24. (AMENDED) The magnetic powder as claimed in claim 23, wherein an average crystal grain size of each of the hard magnetic phase and the soft magnetic phase is 1 - 100 $\mu$ m.

Claim 25. (AMENDED) A bonded magnet which is manufactured by binding the magnetic powder described in claim 20 with binding resin.

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Claim 26. (AMENDED) The bonded magnet as claimed in claim 25, wherein an intrinsic coercive force ( $H_{CJ}$ ) of the bonded magnet at room temperature lies within a range of 320 - 1220 kA/m.

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energy product

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